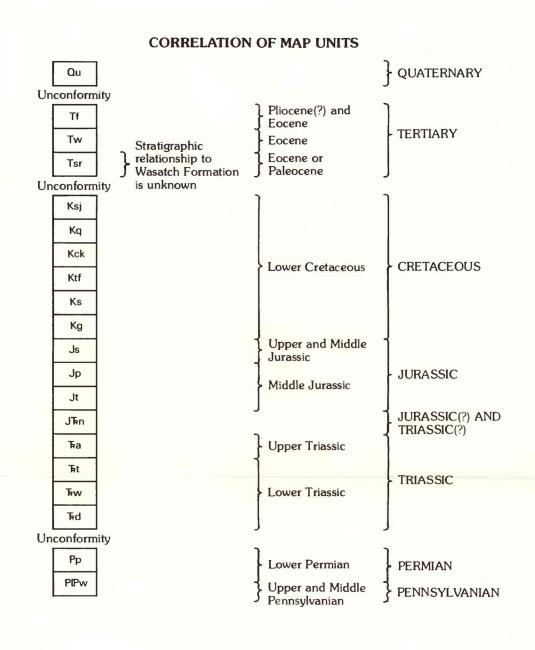


EXPLANATION OF MINERAL RESOURCE POTENTIAL

Geologic terrane having moderate energy resource potential for oil and gas, with cer-M/B tainty level B-Applies to entire study area

Geologic terrane having low resource potential for coal, all metals including uranium, high-purity limestone and dolostone, and geothermal energy, with certainty level B-Applies to entire study area

L/C Geologic terrane having low mineral resource potential for phosphate and vanadium in the Phosphoria Formation, with certainty level C-Applies to entire study area



DESCRIPTION OF MAP UNITS

Alluvium and colluvium (Quaternary)—Unconsolidated bouldery to sandy debris

Fowkes Formation (Pliocene? and Eocene)—Light-colored, tuffaceous conglomerate, sandstone, and siltstone. Shown only outside the southern boundary of the wilderness

Wasatch Formation (Eocene)-Variegated red to gray mudstone; brown to gray sandstone; and conglomeratic lenses. Occurs in down-dropped block on west side of Cokeville normal fault, west side of Sublette Range

Conglomerate of Sublette Range (Eocene or Paleocene)—Basal coarse-grained sandstone and upper boulder-to-cobble conglomerate in gravel-sand matrix. Exposed in south and central parts of Sublette Range. Stratigraphic relationship to Wasatch

Sage Junction Formation (Lower Cretaceous)—Gray and tan siltstone and sandstone; minor quartzite, limestone, conglomerate, porcellanite, and coal beds Quealy Formation (Lower Cretaceous)-Red and variegated mudstone and tan sand-

Cokeville Formation (Lower Cretaceous)—Gray to tan sandstone; some siltstone, clay-Kck stone, limestone, bentonite, porcellanite, and coal

Thomas Fork Formation (Lower Cretaceous)—Red, purple, brown, and green mudstone; Smiths Formation (Lower Cretaceous)—Ferruginous black and tan to brown sandstone Gannett Group (Lower Cretaceous)—Red sandy mudstone, sandstone, and chert-pebble

conglomerate. Thin limestone and shale beds in upper part, more conglomerate in Stump Formation (Upper and Middle Jurassic)—Glauconitic siltstone, sandstone, and

Preuss Redbeds (Middle Jurassic)—Purple, maroon, and reddish-gray argillaceous limestone and calcareous siltstone

Twin Creek Limestone (Middle Jurassic)—Greenish-gray argillaceous limestone and cal-

Nugget Sandstone (Jurassic? and Triassic?)-Buff to pink, crossbedded, well-sorted sandstone and quartzite

Ankareh Formation (Upper Triassic)—Red and maroon shale and pale-purple limestone; minor white to red fine-grained quartzite

Thaynes Limestone (Lower Triassic)—Gray limestone and brown-weathering gray, calcareous siltstone; dark-gray shale and limestone abundant in lower part

Woodside Shale (Lower Triassic)-Red siltstone and shale; minor sandstone and gray Dinwoody Formation (Lower Triassic)—Gray limestone and olive to greenish-brown

Phosphoria Formation (Lower Permian)—Upper part dark- to light-gray chert and shale;

lower part brown-weathering phosphatic shale and limestone Wells Formation (Lower Permian and Upper and Middle Pennsylvanian)—Interbedded gray limestone and pale-yellow calcareous sandstone; minor gray dolostone

Contact—Dashed where approximately located, dotted where concealed

 High-angle fault—Dashed where approximately located; dotted where concealed; bar and ball on downthrown side; arrows show direction of movement Thrust fault—Dashed where approximately located; dotted where concealed; sawteeth on

upper plate Strike and dip of bedding

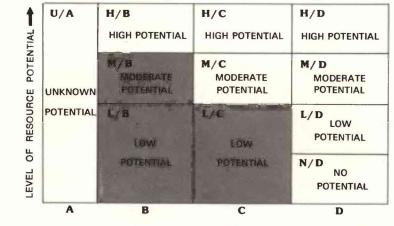
Strike and dip of cleavage

Strike and dip of overturned bedding Upright anticline

Overturned anticline

Upright syncline

 Overturned syncline Exploratory oil well



LEVEL OF CERTAINTY LEVELS OF RESOURCE

LEVELS OF CERTAINTY POTENTIAL A Available data not adequate B Data indicate geologic environment and

Diagram showing relationships between levels of mineral resource potential and levels of certainty. Shading shows levels that apply to this study area